

Figure 1A

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1234567890123456789012345678901234567890123456789012345678901234567
diqmtqspsslsvdrvtitcsasqdisnylnwyqqkpgkapkvliyftsslhsgvpsrfsrgsgtdftltisslqpedfatyyccggystvptwt
-----
..v....hk.....s.s.....v.....s.rl....aa...y....d....n....ys.....ea..l.v.....
el tt.tm tta e ai . r .gsava dhtvh. ..fr.t . t.r .f rv.. . a hc s c
l v l h k n q . n d g y . y g l n a f
. p n q s s y n . t q c y d e k n q r w y
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Summary of amino acid sequences of V<sub>L</sub> hit variants listed above:

DIX<sub>1</sub>X<sub>2</sub>TQX<sub>3</sub>X<sub>4</sub>X<sub>5</sub>X<sub>6</sub>X<sub>7</sub>SX<sub>8</sub>X<sub>9</sub>X<sub>10</sub>GX<sub>11</sub>RX<sub>12</sub>X<sub>13</sub>IX<sub>14</sub>CX<sub>15</sub>ASQDX<sub>16</sub>X<sub>17</sub>X<sub>18</sub>X<sub>19</sub>X<sub>20</sub>X<sub>21</sub>WYQQKXPX<sub>22</sub>X<sub>23</sub>X<sub>24</sub>X<sub>25</sub>X<sub>26</sub>X<sub>27</sub>LIY  
X<sub>28</sub>X<sub>29</sub>SX<sub>30</sub>X<sub>31</sub>X<sub>32</sub>X<sub>33</sub>GVPX<sub>34</sub>RFX<sub>35</sub>GX<sub>36</sub>X<sub>37</sub>SGTDX<sub>38</sub>X<sub>39</sub>X<sub>40</sub>TISX<sub>41</sub>X<sub>42</sub>X<sub>43</sub>X<sub>44</sub>EDX<sub>45</sub>AX<sub>46</sub>YYCQQX<sub>47</sub>X<sub>48</sub>TX<sub>49</sub>PX<sub>50</sub>T

evqlvesggglvqpggslrlscaasyftfnygmwvraqpgkglewgvwintygeptyaadfkrrfftsldtskstaylqmunslraedtavycakyphyvgsshwfydvwg

[illegible]

Summary of amino acid sequences of  $V_H$  hit variants listed above:

XX<sub>1</sub> VQLVX<sub>2</sub> SGGGX<sub>3</sub> VQPGGX<sub>4</sub> LRLX<sub>5</sub> CAX<sub>6</sub> SGX<sub>7</sub> X<sub>8</sub> X<sub>9</sub> X<sub>10</sub> X<sub>11</sub> X<sub>12</sub> X<sub>13</sub> X<sub>14</sub> NWX<sub>15</sub> RQAPGKGX<sub>16</sub> EWVG  
 WXX<sub>17</sub> NTX<sub>18</sub> X<sub>19</sub> GEX<sub>20</sub> TYYX<sub>21</sub> X<sub>22</sub> X<sub>23</sub> FX<sub>24</sub> RRX<sub>25</sub> TX<sub>26</sub> SX<sub>27</sub> DX<sub>28</sub> SKX<sub>29</sub> X<sub>30</sub> X<sub>31</sub> YLQX<sub>32</sub> NSLRAEDTA  
 VYYCAX<sub>33</sub> X<sub>34</sub> X<sub>35</sub> X<sub>36</sub> X<sub>37</sub> X<sub>38</sub> X<sub>39</sub> X<sub>40</sub> X<sub>41</sub> X<sub>42</sub> X<sub>43</sub> YFDX<sub>44</sub> WG

Figure 1C

Amino Acid Sequences of  $V_L$  of Selected Anti-VEGF Antibodies

SEQ ID NO:1

DIQMTQSPSSLSASVGDRTITCSASQDISNYLNWYQQKPKGKAPKVLIIYFTSSLHSGVPSRFSGSGSGTDFTLTISLQPEDFATYYCQQYSTVPWTFGQGTKVEIK

SEQ ID NO:2

DIELTQSPSSLSVSAAGDRVTISCSASQDISNYLNWYQQKPKGKAPRVLIYFTSSLHSGVPSRFSGSGSGTDFTLTISLQPEDVAVYYCQQYSTVPWTFGQGTKVEIK

SEQ ID NO:3

DIELTQSPSSLSVTPGERATITCSASQDISNYLNWYQQKPKGKAPQVLIYFTSSLHSGVPDRFSGSGSGTDFTLTISLQAEDFAIYYCQQYSTVPWTFGQGTKVEIK

SEQ ID NO:4

DIELTQSPSSLSVTPGERATITCSASQDISNYLNWYQQKPGQAPQLIIYFTSSLHSGVPDRFSGSGSGTDFTLTISRLQAEDVAVYYCQQYSTVPWTFGQGTKVEIK

SEQ ID NO:5

DIEMTQSPSSLSASLGERVTISCSASQDISNYLNWYQQKPKGKAPHLLIIYFTSSLHSGVPSRFSGSGSGTDFTLTISLQAEDFAAAYYCQQYSTVPWTFGQGTKVEIK

SEQ ID NO:6

DIVMTQSPSSLSATPGERVTITCSASQDISNYLNWYQQKPGQAPRVLIYFTSSLHSGVPDRFSGSGSGTDFTLTISLQPEDVAVYYCQQYSTVPWTFGQGTKVEIK

SEQ ID NO:7

DIVMTQSPSSLSATPGERVTISCSASQDISNYLNWYQQKPKAPSLLVYFTSSLHSGVPSRFSGSGSGTDFTLTISRLQAEDFAIYYCQQYSTVPWTFGQGTKVEIK

SEQ ID NO:8

DIVLTQSPSSLSATPGERVTISCSASQDISNYLNWYQQKPGQAPQLIIYFTSSLHSGVPSRFSGSGSGTDFTLTISLQAEDVATYYCQQYSTVPWTFGQGTKVEIK

SEQ ID NO:9

DIVLTQSPSSLSATPGERATITCSASQDISNYLNWYQQKPKGKAPHLLIIYFTSSLHSGVPSRFSGSGSGTDFTLTISLQAEDFAIYYCQQYSTVPWTFGQGTKVEIK

SEQ ID NO:10

IEMTQSPSSLSATPGERVTITCSASQDISNYLNWYQQKPKGKAPRVLIYFTSSLHSGVPSRFSGSGSGTDFTLTISRLQPEDVATYYCQQYSTVPWTFGQGTKVEIK

SEQ ID NO:11

DIEMTQSPSSLSVTPGERVTITCSASQDISNYLNWYQQKPKGKAPHLLIIYFTSSLHSGVPDRFSGSGSGTDFTLTISRLQPEDFATYYCQQYSTVPWTFGQGTKVEIK

SEQ ID NO:12

DIELTQSPSSLSATLGERVTISCSASQDISNYLNWYQQKPKGKAPHVLIYFTSSLHSGVPSRFSGSGSGTDFTLTISRLQAEDVATYYCQQYSTVPWTFGQGTKVEIK

Figure 1C

Amino Acid Sequences of V<sub>L</sub> of Selected Anti-VEGF Antibodies

SEQ ID NO:1  
DIQMTQSPSSLSASVGDRVTITCSASQDISNYLNWYQQKPKAPKVLIIYFTSSLHSGVPSRFGSGSGTDFTLTISLQPEDFATYYCQQYSTVPWTFGGQGTKVEIK

SEQ ID NO:2  
DIELTQSPSSLSVAGDRVTISCSASQDISNYLNWYQQKPKAPRVLIIYFTSSLHSGVPSRFGSGSGTDFTLTISLQPEDVAVYYCQQYSTVPWTFGGQGTKVEIK

SEQ ID NO:3  
DIELTQSPSSLSVTPGERATITCSASQDISNYLNWYQQKPKAPQVLIIYFTSSLHSGVPSRFGSGSGTDFTLTISLQAEFDAIYYCQQYSTVPWTFGGQGTKVEIK

SEQ ID NO:4  
DIELTQSPSSLSVTPGERATITCSASQDISNYLNWYQQKPGAPQLIIYFTSSLHSGVPSRFGSGSGTDFTLTISRLOAEDVAVYYCQQYSTVPWTFGGQGTKVEIK

SEQ ID NO:5  
DIEMTQSPSSLSASLGERVTISCSASQDISNYLNWYQQKPKAPHLLIIYFTSSLHSGVPSRFGSGSGTDFTLTISLQAEFDAAYYCQQYSTVPWTFGGQGTKVEIK

SEQ ID NO:6  
DIVMTQSPSSLSATPGERVTITCSASQDISNYLNWYQQKPGAPRVLIIYFTSSLHSGVPSRFGSGSGTDFTLTISLQPEDVAVYYCQQYSTVPWTFGGQGTKVEIK

SEQ ID NO:7  
DIVMTQSPSSLSATPGERVTIXCSASQDISNYLNWYQQKPKAPSLVYFTSSLHSGVPSRFGSGSGTDFTLTISRLOAEDFAIYYCQQYSTVPWTFGGQGTKVEIK

SEQ ID NO:8  
DIVLTQSPSSLSATPGERVTISCSASQDISNYLNWYQQKPGAPQLIIYFTSSLHSGVPSRFGSGSGTDFTLTISLQAEEDVATYYCQQYSTVPWTFGGQGTKVEIK

SEQ ID NO:9  
DIVLTQSPSSLSATPGERATITCSASQDISNYLNWYQQKPKAPHLLIIYFTSSLHSGVPSRFGSGSGTDFTLTISLQAEFDAIYYCQQYSTVPWTFGGQGTKVEIK

SEQ ID NO:10  
IEMTQSPSSLSATPGERVTITCSASQDISNYLNWYQQKPKAPRVLIIYFTSSLHSGVPSRFGSGSGTDFTLTISRLOPEDVATYYCQQYSTVPWTFGGQGTKVEIK

SEQ ID NO:11  
DIEMTQSPSSLSVTPGERVTITCSASQDISNYLNWYQQKPKAPHLLIIYFTSSLHSGVPSRFGSGSGTDFTLTISRLOPEDFATYYCQQYSTVPWTFGGQGTKVEIK

SEQ ID NO:12  
DIELTQSPSSLSATLGERVTISCSASQDISNYLNWYQQKPKAPHVLIYFTSSLHSGVPSRFGSGSGTDFTLTISRLOAEDVATYYCQQYSTVPWTFGGQGTKVEIK

Figure 1C-cont.

SEQ ID NO:13  
DIEMTQSPSSLASVGDVRTITCSASQDISNYLNWYQQKPGQAPRVLIYFTSSLSHSGVPDRFSGSGSGTDFTLTISSLQAEQFAVYYCQQYSTVPWTFGGGTTKVEIK

SEQ ID NO:14  
DIQLTQSPSSLASAGDVRTITCSASQDISNYLNWYQQKPGKAPQQLLIYFTSSLSHSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQYSTVPWTFGGGTTKVEIK

SEQ ID NO:15  
DIVMTQSPSSLASPGERATISCNASQSIGTYLAWYQQKPGQAPQVLIYGASNLAGVPGFRFSGSGSGTDFTLTISSLQPEDFAVYYCQQYNSKPWTFGGGTTKVEIK

SEQ ID NO:16  
DIVMTQSPSSLASPGERATISCRASQSISSYLAWYQQKPGQAPQVLIYGASNLAGVPNRFSGSGSGTDFTLTISSLQPEDFAVYYCQQYSSSPWTFGGGTTKVEIK

SEQ ID NO:17  
DIVMTQSPSSLASPGERATITCHASQSIGTYLAWYQQKPGQAPQVLIYGASNLAGVPNRFSGSGSGTDFTLTISSLQPEDFAVYYCQQYNSSTPWTFFGGGTTKVEIK

SEQ ID NO:18  
DIVMTQSPSSLASPGERATITCHASQSIISTYLAWYQQKPGQAPQVLIYDASNLAGVPGFRFSGSGSGTDFTLTISSLQPEDFAVYYCQQYNSAPWTFGGGTTKVEIK

SEQ ID NO:19  
DIVMTQSPSSLASPGERATITCKASQSIGTYLAWYQQKPGQAPRVLIYDASNLAGVPNRFSGSGSGTDFTLTISSLQPEDFAVYYCQQYSSSTPYTFGGGTTKVEIK

SEQ ID NO:20  
DIKMTQSPSSLASPGERATISCKASQSIGSYLAWYQQKPGQAPSVLIYAASNLAGVPNRFSGSGSGTDFTLTISSLQPEDFAVYYCQQYSGPWTFGGGTTKVEIK

SEQ ID NO:21  
DIKMTQSPSSLASPGERATITCNASQSIISTYLAWYQQKPGQAPKVLIIYGASNLAGVPNRFSGSGSGTDFTLTISSLQPEDFAVYYCQQYNSAPWTFGGGTTKVEIK

SEQ ID NO:22  
DIVMTQSPSTLASPGERATISCKASQSIGSYLAWYQQKPGQAPRVLIYASNLAGVPSRFSGSGSGTDFTLTISSLQPEDFAVYYCQQYNSSTPWTFFGGGTTKVEIK

SEQ ID NO:23  
DIVMTQSPSTLASPGERATISCKASQSIGTYLAWYQQKPGQAPRVLIYDASNLAGVPNRFSGSGSGTDFTLTISSLQPEDFAVYYCQQYYSTPWTFFGGGTTKVAIK

SEQ ID NO:24  
DIVMTQSPSTLASPGERATISCKASQSIGTYLAWYQQKPGQAPRVLIYASNLAGVPNRFSGSGSGTDFTLTISSLQPEDFAVYYCQQYSSSTPWTFFGGGTTKVEIK

Figure 1C-cont.

SEQ ID NO:25

DIVMTQSPSTLSASPGERATITCHASQSISSYLAWYQQKPGQAPNVLIIYGASNLAGVPSRFGSGRSGTDFTLTISSLQPEDFAVYYCQQYNSTPWTFGGGTKVEIK

SEQ ID NO:26

DIVMTQSPSTLSASPGERATITCHASQSISSYLAWYQQKPGQAPRVLIIYGASNLAGVPSRFGSGSGTDFTLTISSLQPEDFAVYYCQQYNSTPWTFGGGTKVEIK

SEQ ID NO:27

DIVMTQSPSTLSASPGERATITCKASQSISSYLAWYQQKPGQAPQVLIYDASNLAGVPSRFGSGSGTDFTLTISSLQPEDFAVYYCQQYNSTPWTFGGGTKVEIK

SEQ ID NO:28

DIVMTQSPSTLSASPGERATITCNASQSIGSYLAWYQQKPGQAPKVLIIYGASNLAGVPSRFGSGRSGTDFTLTISSLQPEDFAVYYCQQYNSTPWTFGGGTKLEIK

SEQ ID NO:29

DIVMTQSPSTLSASPGERATITCNASQSIGTYLAWYQQKPGQAPNLLIYDASNLAGVPSRFGSGRSGTDFTLTISSLQPEDFAVYYCQQYSSTPWTFGGGTKVEIK

SEQ ID NO:30

DIVMTQSPSTLSASPGERATITCNASQSIGTYLAWYQQKPGQAPNVLIIYDASNLAGVPSRFGSGRSGTDFTLTISSLQPEDFAVYYCQQYYAPWTFGGGTKVEIK

SEQ ID NO:31

DIVMTQSPSTLSASPGERATITCNASQSISSYLAWYQQKPGQAPRVLIIYGASNLAGVPSRFGSGSGTDFTLTISSLQPEDFAVYYCQQYNSTPWTFGGGTKVEIK

SEQ ID NO:32

DIVMTQSPSTLSASPGERATITCQASQSISSYLAWYQQKPGQAPKVLIIYDASNLAGVPSRFGSGSGTDFTLTISSLQPEDFAVYYCQQYNSTPWTFGGGTKVEIK

SEQ ID NO:33

DIVMTQSPSTLSASPGERATITCRASQSISSYLAWYQQKPGQAPRLLIYSASNLAGVPSRFGSGRSGTDFTLTISSLQPEDFAVYYCQQYYSTPWTFGGGTKVEIK

SEQ ID NO:34

DIVMTQSPSTLSASPGERATITCSASQSIGTYLAWYQQKPGQAPSVLIYGASNLAGVPSRFGSGSGTDFTLTISSLQAEQEDFAVYYCQQYNSTPWTFGGGTKVEIK

SEQ ID NO:35

DIVMTQSPSTLSASPGERATITCSASQSISSYLAWYQQKPGQAPQVLIYAAASNLAGVPSRFGSGRSGTDFTLTISSLQPEDFAVYYCQQYYSTPWTFGGGTKVEIK

SEQ ID NO:36

AIRMTQSPSSVSASVGDVTITACRASQAIRNDLTWYQQKPGTAPKLLIYGATTIQSGVPSRFGSGSGTDFTLTISSLQPEDFATYYCQSSSTPWTFGGQTKVDIK

SEQ ID NO:37

DIVMTQTPSSLASVGDVTITCRASRDIRNDLAWYQQKPGKAPPELLIYAASSLQSGVPSRFGSGSGTDFTLTISSLQPEDFATYYCQSSSTPWTFGGQTKVDIK

Figure 1C-cont.

SEQ ID NO:38

EIVLTQSPSSLSASIGDRVAITCRASRDITTDLAWYQQIPGKAPKLLIYAASRLQSGVPSRFSGSGSGTDFTLTITSSLPQEDFAAYYCCQSYSTPWTFGQGTKVDIK

SEQ ID NO:39

EIVLTQSPSSLSASVGDRIITITCRASDIRDDLAWYQQKPGKAPKVLIIYAASSLQSGVPSRFSGSGSGTDFTLTITSSLPQEDFATYYCQQSYSTPWTFGQGTKLEIK

SEQ ID NO:40

EIVLTQSPSSLSASVGDRTITCRASQISITYINWYQQKPGKAPKLLIYAASSLQSGVTSRFSGSGSGTDFTLTIRSLQPEDFATYYCQQSYSTPWTFGQGTKVEIK

SEQ ID NO:41

EIVMTQSPSSLSASVGDRTITCRASQAIYDYLAWYQQKPGKAPNLLIYAASRLQSGVPSRFSGSGSGTDFTLTITSSLPQEDFATYYCQQSYSTPWTFGQGTKVDIK

SEQ ID NO:42

EIVMTQSPSSLSASVGDRTITCRASQDIRKDLAWYQQKPGIAPKVLIIYAASTLQSGVPSRFSGSGSGTDFTLTITSSLPQEDFATYYCQQSYSPWTFGQGTKLEIK

SEQ ID NO:43

EIVMTQSPSSLSASVGDRTITCRASQISITYINWYQQKPGKAPKLLIYAASSLQSGVTSRFSGSGSGTDFTLTIRSLQPEDFATYYCQQSYSTPWTFGQGTKVEIK

SEQ ID NO:44

EIVMTQSPSSLSASVGDVTITACRASDIRNDLAWYQQKPGKAPKLLIYAASRLQSGVPSRFSGSGSGTDFTLTITSSLPQEDSASYCQQSYTIPWTFGQGTKLEIK

SEQ ID NO:45

ETTLTQSPSSLSASVGDITITISCRSSQPIITNDLAWYQQKPGKAPNLLIYAASRLQGGVPSRFSGSGSGTDFTLTITSSLPQEDFATYYCQQSYSTPWTFGQGTKVEIK

SEQ ID NO:46

LPVLTQPPSASGTPGQRTISCSGTSNIGSNPVNWYQQLPGTAPKLLIYSNNQRPSPGVDRLSGSKSGTSASLAISGLLSEDEADYYCASWDDSLTGYVFGTGTQL  
TVL

SEQ ID NO:47

LPVLTQPPSASGTPGQRTISCSGGSYSNIGSNVNWYQQLPGAAPKVLMTNNQRPSPGVDRFSGSKSGTSASLAISGLRSEDEADYYCAAWDDSLNGYVFGTGTKL  
TVL

SEQ ID NO:48

NFMLTQPPSTSGTPGQRTISCSGTSNIGSNSVTWYQQLPGTAPKVLMTNNQRPSPGVDRFSGSKSGTSASLAISGLQSEDEADYYCAAWDDSLNGYVFGTGTKL  
TVL

SEQ ID NO:49

QAVLTQPPSASGTPGQSVTISCSGTTSNIGSNSVNWYQQLPGTAPKVLIIYGNQRPSPGVDRFSGSRATSASLAISGLQSEDEADYYCAAWDDSLSGYVFGAGTQL  
TVL

Figure 1C-cont.

SEQ ID NO:50  
QPVLTPPPSASATPGQRTISCSGSSSNIGSNPWNWYQQLPGTAPKVLIIYSNNQRPSPGVDRFSGSKSGTSASLAISGLQSEDEADYYCAAWDDSLSGYVFGTGTKL  
TVL

SEQ ID NO:51  
QPVLTPPPSASGTPGQRTISCSGSSSNVGRNTVNWYQQFPGTAPKFLMYGNDERPSGVDRFSGSKSGTSASLAISGLQSEDEADYYCATWDDSLNGYVFGTGTL  
TVL

SEQ ID NO:52  
QPVLTPPPSTSGTPGQRTISCSGSSSNIGSNSVTWYQQLPGTAPKVLMTNNQRPSPGVDRFSGSKSGTSASLAISGLQSEDEADYYCAAWDDSLSGYVFGTGTKL  
TVL

SEQ ID NO:53  
QSVLTQPPSASGTPGQRTISCSGSSSNIGSNNVWYQQFPGTAPKVLIIYGNQRPSPGVDRFSGSKSGTSASLAISGLQSEDEADYYCGAWDDSLNGYVFGTGTKL  
TVL

SEQ ID NO:54  
QSALTQPPSVSGAPGQRTISCTGRSSNIGAGHDVHWYQQLPGTAPKLLIYANDQRPSPGVDRFSDSKSGTSASLGISGLRSEDEADYFCATWDDSLHGYVFGTGTK  
VTVL

SEQ ID NO:284  
DIQMTQTSSLSASLGDVRVICSASQDISNYLNWYQQKPDGTVKVLIIYFTSSLHSGVPSRFSGSGSGTDYSLTISNLEPEDIATYYCQYSTVPWTFGGGTTKLEIK  
DIQMTQTSSLSASLGDVRVICSASQDISNYLNWYQQKPDGTVKVLIIYFTSSLHSGVPSRFSGSGSGTDYSLTISNLEPEDIATYYCQYSTVPWTFGGGTTKLEIK



Figure 1C-cont.

**Amino Acid Sequences of V<sub>1</sub>/CDR1 of Selected Anti-VEGF Antibodies**

SEQ ID NO:164	NASQSIGTYLA
SEQ ID NO:165	KASQSIGTYLA
SEQ ID NO:166	HASQSISSYLA
SEQ ID NO:167	SASQSISTYLA
SEQ ID NO:168	RASQSISTYLA
SEQ ID NO:169	KASQSIGSYLA
SEQ ID NO:170	HASQSISTYLA
SEQ ID NO:171	RASQSISSYLA
SEQ ID NO:172	NASQSIGSYLA
SEQ ID NO:173	SASQSIGTYLA
SEQ ID NO:174	KASQSISTYLA
SEQ ID NO:175	NASQSISTYLA
SEQ ID NO:176	HASQSIGTYLA
SEQ ID NO:177	QASQSISTYLA
SEQ ID NO:178	RASQSISTYIN
SEQ ID NO:179	RASRDIRNDLA
SEQ ID NO:180	RASRDITTDLA
SEQ ID NO:181	RASQDIRKDLA
SEQ ID NO:182	RASQAIRNDLT
SEQ ID NO:183	RASQAIYDYLA
SEQ ID NO:184	RSSQPITNDLA
SEQ ID NO:185	RASRDIRDDLA
SEQ ID NO:186	SGSSSNVGRNTVN
SEQ ID NO:187	SGTSTNIGSNPNV
SEQ ID NO:188	TGRSSNIGAGHDVH
SEQ ID NO:189	SGSNSNIGSNNVY
SEQ ID NO:190	SGYSNIGSNAVN
SEQ ID NO:191	SGTTSNIGSNSVN
SEQ ID NO:192	SGSSSNIGSNSVT
SEQ ID NO:193	SGTSTNIGSNSVT
SEQ ID NO:194	SGSSSNIGSNPNV

Figure 1C-cont.

**Amino Acid Sequences of V<sub>L</sub>/CDR2 of Selected Anti-VEGF Antibodies**

SEQ ID NO:195	GASNLAS
SEQ ID NO:196	DASNLAS
SEQ ID NO:197	SASNLAS
SEQ ID NO:204	AASNLAS
SEQ ID NO:198	AASSLQS
SEQ ID NO:199	AASRLQS
SEQ ID NO:200	AASTLQS
SEQ ID NO:201	GATTLQS
SEQ ID NO:202	AASRLQG
SEQ ID NO:203	GNDERPS
SEQ ID NO:205	ANDQRPS
SEQ ID NO:206	GNNQRPS
SEQ ID NO:207	TNNQRPS
SEQ ID NO:208	GNDQRPS
SEQ ID NO:209	SNNQRPS

**Amino Acid Sequences of V<sub>L</sub>/CDR3 of Selected Anti-VEGF Antibodies**

SEQ ID NO:210	QQYNSKPWT
SEQ ID NO:211	QQYSSTPYT
SEQ ID NO:212	QQYNSTPWT
SEQ ID NO:213	QQYYSTPWT
SEQ ID NO:214	QQYNSAPWT
SEQ ID NO:215	QQYSSSPWT
SEQ ID NO:216	QQYSGPWT
SEQ ID NO:217	QQYSSTPWT
SEQ ID NO:218	QQYYSAPWT
SEQ ID NO:219	QQYSSTPWT
SEQ ID NO:220	QQYSPPWT
SEQ ID NO:221	QQSYTIPWT
SEQ ID NO:222	QQSSTTPWT
SEQ ID NO:223	ATWDDSLNGYV
SEQ ID NO:224	ASWDDSLTGYV
SEQ ID NO:225	ATWDDSLHGYV
SEQ ID NO:226	GAWDDSLNGYV
SEQ ID NO:227	AAWDDSLNGYV
SEQ ID NO:228	AAWDDSLSGYV

Figure 1C-cont.

**Amino Acid Sequences of V<sub>L</sub>/FRs of Selected Anti-VEGF Antibodies**

SEQ ID NO:229  
DIVMTQSPSSLASPGERATISC/CDR1/WYQQKPGQAPQVLIY/CDR2/GVPGRFSGSGGTDFTLTISSLQPEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:230  
DIVMTQSPSSLASPGERATITC/CDR1/WYQQKPGQAPRVLIY/CDR2/GVPNRFSGRSRGTDFTLTISSLQPEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:231  
DIVMTQSPSTLASPGERATITC/CDR1/WYQQKPGQAPNVLIY/CDR2/GVPDRFSGRSRGTDFTLTISSLQPEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:232  
DIVMTQSPSTLASPGERATITC/CDR1/WYQQKPGQAPQVLIY/CDR2/GVPNRFSGRSRGTDFTLTISSLQPEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:233  
DIVMTQSPSTLASPGERATITC/CDR1/WYQQKPGQAPRLIY/CDR2/GVPNRFSGRSRGTDFTLTISSLQPEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:234  
DIVMTQSPSTLASPGERATISC/CDR1/WYQQKPGQAPRVLIY/CDR2/GVPSRFSGRSRGTDFTLTISSLQPEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:235  
DIVMTQSPSTLASPGERATITC/CDR1/WYQQKPGQAPRVLIY/CDR2/GVPNRFSGSGGTDFTLTISSLQPEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:236  
DIVMTQSPSSLASPGERATISC/CDR1/WYQQKPGQAPQVLIY/CDR2/GVPNRFSGSGGTDFTLTISSLQPEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:237  
DIVMTQSPSTLASPGERATITC/CDR1/WYQQKPGQAPKVLIIY/CDR2/GVPSRFSGRSRGTDFTLTISSLQPEDFAVYYC/CDR3/FGGGTKLEIK

SEQ ID NO:238  
DIKMTQSPSSLASPGERATISC/CDR1/WYQQKPGQAPSVLIY/CDR2/GVPNRFSGRSRGTDFTLTISSLQPEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:239  
DIVMTQSPSTLASPGERATITC/CDR1/WYQQKPGQAPSVLIY/CDR2/GVPGRFSGSGGTDFTLTISSLQAEDEFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:240  
DIVMTQSPSSLASPGERATITC/CDR1/WYQQKPGQAPQVLIY/CDR2/GVPGRFSGSGGTDFTLTISSLQPEDFAVYYC/CDR3/FGGGTKVEIK

Figure 1C-cont.

SEQ ID NO:241  
DIVMTQSPSTLSASPGERATITC/CDR1/WYQQKPGQAPQVLIY/CDR2/GVPNRFSGSGSGTDFTLTITSSLPQEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:242  
DIVMTQSPSTLSASPGERATISC/CDR1/WYQQKPGQAPRVLIY/CDR2/GVPNRFSGSGSGTDFTLTITSSLPQEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:243  
DIVMTQSPSTLSASPGERATITC/CDR1/WYQQKPGQAPRVLIY/CDR2/GVPSRFSGSGSGTDFTLTITSSLPQEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:244  
DIVMTQSPSTLSASPGERATITC/CDR1/WYQQKPGQAPNLLIY/CDR2/GVPGRFSGRSRSGTDFTLTITSSLPQEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:245  
DIVMTQSPSSLASPGERATITC/CDR1/WYQQKPGQAPHVLIY/CDR2/GVPNRFSGRSRSGTDFTLTITSSLPQDDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:246  
DIVMTQSPSTLSASPGERATISC/CDR1/WYQQKPGQAPRVLIY/CDR2/GVPNRFSGRSRSGTDFTLTITSSLPQEDFAVYYC/CDR3/FGGGTKVAIK

SEQ ID NO:247  
DIVMTQSPSTLSASPGERATITC/CDR1/WYQQKPGQAPKVLIIY/CDR2/GVPGRFSGSGSGTDFTLTITSSLPQEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:248  
DIVMTQSPSTLSASPGERATITC/CDR1/WYQQKPGQAPNVLIIY/CDR2/GVPSRFSGRSRSGTDFTLTITSSLPQEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:249  
DIKMTQSPSSLASPGERATITC/CDR1/WYQQKPGQAPKVLIIY/CDR2/GVPNRFSGSGSGTDFTLTITSSLPQEDFAVYYC/CDR3/FGGGTKVEIK

SEQ ID NO:250  
EIVMTQSPSSLASVGDRTVITC/CDR1/WYQQKPGKAPKLLIY/CDR2/GVTSRFSGSGSGTDFTLTIRSLQPEDFATYYC/CDR3/FGQGTKVEIK

SEQ ID NO:251  
DIVMTQTPSSLASVGDVTITC/CDR1/WYQQKPGKAPPELLIY/CDR2/GVPSRFSGSGSGTDFTLTITSSLPQEDFATYYC/CDR3/FGQGTKVDIK

SEQ ID NO:252  
EIVLTQSPSSLASIGDRVAITC/CDR1/WYQQIPGKAPKLLIY/CDR2/GVPSRFSGSGSGTDFTLTITSSLPQEDFAAAYC/CDR3/FGQGTKVDIK

SEQ ID NO:253  
EIVLTQSPSSLASVGDRTVITC/CDR1/WYQQKPGKAPKLLIY/CDR2/GVTSRFSGSGSGTDFTLTIRSLQPEDFATYYC/CDR3/FGQGTKVEIK

Figure 1C-cont.

SEQ ID NO:254  
EIVMTQSPSSLSASVGDRTITC/CDR1/WYQQKPGIAPKVLII/CDR2/GVPSRFSGSGSGTDFTLTISSLQPEDFATYYC/CDR3/FGQGTKLEIK

SEQ ID NO:255  
EIVMTQSPSSLSASVGDVTVTIAC/CDR1/WYQQKPGKAPKLLII/CDR2/GVPSRFSGTSGTDFALTITISLQPEDSASYC/CDR3/FGQGTKLEIK

SEQ ID NO:256  
AIRMTQSPSSVSASVGDVTVTIAC/CDR1/WYQQKPGTAPKLLII/CDR2/GVPSRFSGSGSGTDFTLTISSLQPEDFATYYC/CDR3/FGQGTKVDIK

SEQ ID NO:257  
EIVMTQSPSSLSASVGDRTITC/CDR1/WYQQKPGKAPNLLII/CDR2/GVPSRFSGSGSGTDFTLTISSLQPEDFATYYC/CDR3/FGQGTKVDIK

SEQ ID NO:258  
ETTLTQSPSSLSASVGDITITISC/CDR1/WYQQKPGKAPNLLII/CDR2/GVPSRFSGSGSGTDFTLTISSLQPEDFATYYC/CDR3/FGQGTKVEIK

SEQ ID NO:259  
EIVLTQSPSSLSASVGDRTITC/CDR1/WYQQKPGKAPKVLII/CDR2/GVPSRFSGSGSGTDFTLTISSLQPEDFATYYC/CDR3/FGQGTKLEIK

SEQ ID NO:260  
DIQLTQSPSSLSASAGDRTITC/CDR1/WYQQKPGKAPQLII/CDR2/GVPSRFSGSGSGTDFTLTISSLQPEDFATYYC/CDR3/FGQGTKVEIK

SEQ ID NO:261  
QPVLTPPSASGTPGQRTITC/CDR1/WYQQFPGTAPKFLMY/CDR2/GVPDRFSGSKSGTSASLAISGLQSEDEADYYC/CDR3/FGTGTQLTVL

SEQ ID NO:262  
LPVLTPPSASGTPGQRTITC/CDR1/WYQQLPGTAPKLLII/CDR2/GVPDRLSGSKSGTSASLAISGLLSEDEADYYC/CDR3/FGTGTQLTVL

SEQ ID NO:263  
QSALTQPPSVGAPGQRTITC/CDR1/WYQQLPGTAPKLLII/CDR2/GVPDRFSDSKSGTSASLIGSLRSEDEADYFC/CDR3/FGTGTKVTVL

SEQ ID NO:264  
QSVLTQPPSASGTPGQRTITC/CDR1/WYQQFPGTAPKVLII/CDR2/GVPDRFSGSKSGTSASLAISGLQSEDEADYYC/CDR3/FGTGTKLTVL

SEQ ID NO:265  
LPVLTPPSASGTPGQRTITC/CDR1/WYQQLPGAAPKVLMY/CDR2/GVPDRFSGSKSGTSASLAISGLRSEDEADYYC/CDR3/FGTGTKLTVL

SEQ ID NO:266  
QAVLTQPPSASGTPGQSVTITC/CDR1/WYQQLPGTAPKVLII/CDR2/GVPDRFSGSRSATSLAISGLQSEDEADYYC/CDR3/FGAGTQLTVL

Figure 1C-cont.

SEQ ID NO:267  
QPVLTPPPSTSGTPGQRTISC/CDR1/WYQQLPGTAPKVLMY/CDR2/GVPERFSGSKSGTSASLAISGLQSEDEADYYC/CDR3/FGTGTKLTVL

SEQ ID NO:268  
NFMLTQPPSTSGTPGQRTISC/CDR1/WYQQLPGTAPKVLMY/CDR2/GVPERFSGSKSGTSASLAISGLQSEDEADYYC/CDR3/FGTGTKLTVL

SEQ ID NO:269  
QPVLTPPPSASATPGQRTISC/CDR1/WYQQLPGTAPKVLIIY/CDR2/GVPDRFSGSKSGTSASLAISGLQSEDEADYYC/CDR3/FGTGTKLTVL

Figure 1D

Amino Acid Sequences of V<sub>H</sub> of Selected Anti-VEGF Antibodies

SEQ ID NO:55  
EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRRTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPHYGGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:56  
EVQLVESGGGLVQPGGSLRLSCAASGYDFTHYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRRTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPYYGTSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:57  
EGQLVQSGGGVQPGGSLRLSCAASGYTFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFRRRTFSLDTSKSTAYLQNLNLSRAEDTAVYYCAKYPHYGGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:58  
EVQLVESGGGVQPGGSLRLSCAASGYTFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFRRRTISLDNSKQAYLQMNLSRAEDTAVYYCAKYPHYGGSSH  
WYFDVWAQGTLLTVSS

SEQ ID NO:59  
EVQLVQSGGGLVQPGGTLRLSCAASGYTFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFRRRTFSLDTSKNTAYLQMNLSRAEDTAVYYCAKYPHYGGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:60  
EVQLVQSGGGVQPGGSLRLRCAASGYTFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFRRRTFSLDTSKSTAYLQNLNLSRAEDTAVYYCAKYPHYGGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:61  
EVQLVQSGGGVQPGGSLRLSCAASGDFFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFRRRTFSLDTSKSTAYLQNLNLSRAEDTAVYYCAKYPHYGGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:62  
EVQLVQSGGGVQPGGSLRLSCAASGYALDHFGLNWIRQAPGKGLEWVGWINTYTGEPTYAADFRRRTFSLDTSKSTAYLQNLNLSRAEDTAVYYCAKYPHYGGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:63  
EVQLVQSGGGVQPGGSLRLSCAASGYDFYNYGINWVRQAPGKGLEWVGWINTYTGEPTYAHEFTRRTFSLDTSKSTAYLQNLNLSRAEDTAVYYCAKYPHYGGSSH  
WYFDVWGQGTLLTVSS

Figure 1D-cont.

SEQ ID NO:64

EVQLVQSGGVSVPQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPHYYGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:65

EVQLVQSGGVSVPQPGGSLRLSCAASGYTFFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFRRVTFSLDTSKNTAYLQLNSLRAEDTAVYYCAKYPHYYGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:66

EVQLVQSGGVSVPQPGGSLRLSCAASGYTFFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPHYYGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:67

EVQLVQSGGVSVPQPGGSLRLSCAASGYTFFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPHYYGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:68

EVQLVQSGGVSVPQPGGSLRLSCAASGYTFFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPHYYGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:69

EVQLVQSGGVSVPQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRVTFSLDTSKNTAYLQLNSLRAEDTAVYYCAKYPHYYGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:70

EVQLVQSGGVSVPQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRVTFSLDTSKSTAYLQMNLSLRAEDTAVYYCAKYPHYYGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:71

EVQLVQSGGVSVPQPGGSLRLTCAASGYTFFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCARYPHYYGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:72

EVQLVQSGGVSVPQPGGSLRLTCAVSGYTFFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFRRVTFSLDTSKNTQAYLQMNLSLRAEDTAVYYCAKYPHYYGSSH  
WYFDVWGQGTLVTVSS



Figure 1D-cont.

SEQ ID NO:73

EVQLVQSGGVSVPQGGTLRLSCAASGYTFFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFKRRVTFSLDTSKSTAYLQLNSLRAEDTAVVYCAKYPHYHYGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:74

EVQLVQSGGVSVPQGGTLRLTCAASGYTFFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFKRRVTFSLDTSKSTAYLQMNSLRAEDTAVVYCAKYPHYHYGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:75

EVQLVQSGGVSVPQGGTLRLTCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRVTFSLDTSKSTAYLQMNSLRAEDTAVVYCAKYPHYHYGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:76

EVQLVQSGGVSVPQGGTLRLTCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRVTISLDTSKSTVYLQMNSLRAEDTAVVYCAKYPHYHYGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:77

QVQLVQSGGGLVQPGGSLRLTCAASGYTFFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTFSLDTSKSKAYLQLNSLRAEDTAVVYCARYPHYHYGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:78

QVQLVQSGGGLVQPGGTLRLTCAVSGYTFFTNYGMNWIRQAPGKGLEWVGWINTYTGAPTYAADFKRRLTFSLDNKPNPPYLQMNSLRAEDTAVVYCAKYPHYHYGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:79

QVQLVQSGGGVQPGGSLRLSCAASGYTFFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFKRRVTFSLDNKSTVYLQMNSLRAEDTAVVYCAKYPH  
YIGSSHWFYFDVWGQGTLLTVSS

SEQ ID NO:80

QVQLVQSGGVSVPQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTISLDTSKNTAYLQLNSLRAEDTAVVYCAKYPHYHYGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:81

QVQLVQSGGVSVPQPGGSLRLTCAASGYTFFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFKRRVTISLDTSKSQAYLQMNSLRAEDTAVVYCAKYPHYHYGSSH  
WYFDVWGQGTLLTVSS

SEQ ID NO:82

QVQLVQSGGVSVPQPGGSLRLTCAASGYTFFTNYGMNWIRQAPGKGLEWVGWINTYTGEPTYAADFKRRVTISLDTSKSTAYLQLNSLRAEDTAVVYCAKYPHYHYGSSH  
WYFDVWGQGTLLTVSS

Figure 1D-cont.

SEQ ID NO:83  
QVQLVQSGGVSVPQGGSLRLTCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGETTYAADFKRRFTISLDTSKSQAYLQMNSLRAEDTAVYYCAKYPHYGGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:84  
QVQLVQSGGVSVPQGGTLRLTCAASGYTFFTNYGMNWIROAPGKGLEWVGWINTYTGETTYAADFKRRFTFSLDTSKNTAYLQMNSLRAEDTAVYYCAKYPHYGGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:85  
EVQLVQSGGVVQPGGSLRLSCAASGYTFTHYGLNWLROAPGKGPWVGWVNTYTGETTYADEFKRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPYYGRSHW  
YFDVWGQGTLVTVSS

SEQ ID NO:86  
EVQLVQSGGVVQPGGSLRLSCAASGFNFTHYGINWIRQAPGKGPWVGWINTNNGEPTYAQDFKRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:87  
EVQLVQSGGVVQPGGSLRLSCAASGYDFAHYGLNWIROAPGKGLEWVGWVNTYTGESTYVPEFKRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:88  
EVQLVQSGGVVQPGGSLRLSCAASGYDFAHYGVNWLROAPGKGLEWVGWINTYTGETTYAHDFKRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:89  
EVQLVQSGGVVQPGGSLRLSCAASGYDFASFGINWIRQAPGKGLEWVGWINTYTGESTYAQDFKRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPYYGRSH  
WYFDVWGQGTLVTVSS

SEQ90  
EVQLVQSGGVVQPGGSLRLSCAASGYDFDHFGINWIRQAPGKGPWVGWINTYTGETTYVDEFKRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:91  
EVQLVQSGGVVQPGGSLRLSCAASGYDFNNYGMNWIROAPGKGPWVGWINTYNGEPTYAPDFKRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPYYGRSH  
WYFDVWGQGTLVTVSS

Figure 1D-cont.

SEQ ID NO:92  
EVQLVQSGGVSVPQGGSLRLSCAASGYD<sup>5</sup>FSHF<sup>10</sup>GINWIRQAPGKGLEWVGWINTYTGETTYA<sup>15</sup>HD<sup>20</sup>FKRRV<sup>25</sup>TFSLD<sup>30</sup>TSKSTAYLQLNSLRAEDTAVYYCAKYP<sup>35</sup>YYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:93  
EVQLVQSGGVSVPQGGSLRLSCAASGYD<sup>5</sup>FSHF<sup>10</sup>GINWVRQAPGKGP<sup>15</sup>EWVGWINTYTGETTYV<sup>20</sup>PE<sup>25</sup>FKRRV<sup>30</sup>TFSLD<sup>35</sup>TSKSTAYLQLNSLRAEDTAVYYCAKYP<sup>40</sup>YYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:94  
EVQLVQSGGVSVPQGGSLRLSCAASGYD<sup>5</sup>FSNYGLNWVRQAPGKGP<sup>10</sup>EWVGWINTYTGEPT<sup>15</sup>YAE<sup>20</sup>EF<sup>25</sup>TRRV<sup>30</sup>TFSLD<sup>35</sup>TSKSTAYLQLNSLRAEDTAVYYCAKYP<sup>40</sup>YYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:95  
EVQLVQSGGVSVPQGGSLRLSCAASGYD<sup>5</sup>FT<sup>10</sup>HYGLNWIRQAPGKGP<sup>15</sup>EWVGWINTYTGETTYA<sup>20</sup>HE<sup>25</sup>FT<sup>30</sup>RRV<sup>35</sup>TFSLD<sup>40</sup>TSKSTAYLQLNSLRAEDTAVYYCAKYP<sup>45</sup>YYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:96  
EVQLVQSGGVSVPQGGSLRLSCAASGYN<sup>5</sup>FYHYGVNWVRQAPGKGP<sup>10</sup>EWVGWNTYTGETTYA<sup>15</sup>Q<sup>20</sup>EF<sup>25</sup>FKRRV<sup>30</sup>TFSLD<sup>35</sup>TSKSTAYLQLNSLRAEDTAVYYCAKYP<sup>40</sup>YYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:97  
EVQLVQSGGVSVPQGGSLRLSCAASGYN<sup>5</sup>FYSYGLNWVRQAPGKGP<sup>10</sup>EWVGWINTYTGEPT<sup>15</sup>Y<sup>20</sup>A<sup>25</sup>Q<sup>30</sup>EF<sup>35</sup>FKRRV<sup>40</sup>TFSLD<sup>45</sup>TSKSTAYLQLNSLRAEDTAVYYCAKYP<sup>50</sup>YYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:98  
EVQLVQSGGVSVPQGGSLRLSCAASGYS<sup>5</sup>FDHYGLNWVRQAPGKGLEWVGWINTYTGEPT<sup>10</sup>Y<sup>15</sup>A<sup>20</sup>DE<sup>25</sup>FT<sup>30</sup>RRV<sup>35</sup>TFSLD<sup>40</sup>TSKSTAYLQLNSLRAEDTAVYYCAKYP<sup>45</sup>YYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:99  
EVQLVQSGGVSVPQGGSLRLSCAASGYT<sup>5</sup>FTNYGMNWIRQAPGKGLEWVGWINTYTGEPT<sup>10</sup>Y<sup>15</sup>A<sup>20</sup>AD<sup>25</sup>FT<sup>30</sup>RRV<sup>35</sup>TFSLD<sup>40</sup>TSKSTAYLQLNSLRAEDTAVYYCAKYP<sup>45</sup>YYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:100  
EVQLVQSGGVSVPQGGSLRLSCAASGYT<sup>5</sup>FTNYGMNWIRQAPGKGLEWVGWINTYTGEPT<sup>10</sup>Y<sup>15</sup>A<sup>20</sup>AD<sup>25</sup>FKRRV<sup>30</sup>TFSLD<sup>35</sup>TSKSTAYLQLNSLRAEDTAVYYCAKYP<sup>40</sup>YYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:101  
EVQLVQSGGVSVPQGGSLRLSCAASGYT<sup>5</sup>FTNYGMNWVRQAPGKGLEWVGWINTYTGEPT<sup>10</sup>Y<sup>15</sup>A<sup>20</sup>AD<sup>25</sup>FKRR<sup>30</sup>FT<sup>35</sup>FLD<sup>40</sup>TSKSTAYLQMNLSLRAEDTAVYYCAKYP<sup>45</sup>YYYGRSH  
WYFDVWGQGTLVTVSS

Figure 1D-cont.

SEQ ID NO:102  
EVQLVQSGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:103  
EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPYYGTSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:104  
EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPHYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:105  
EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:106  
EVQLVQSGGGLVQPGGSLRLSCAASGYDFTFHGLNWIRQAPGKGPWVGWINTYTGEPTYAQDFKRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:107  
EVQLVQSGGGLVQPGGSLRLSCAASGYDLSHYGLNWIRQAPGKGPWVGWINTYTGEPTYAPDFTRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:108  
EVQLVQSGGGLVQPGGSLRLSCAASGYNFSHFGLNWLRQAPGKGLEWVGWINTYNGETTYAPDFKRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:109  
EVQLVQSGGGLVQPGGSLRLSCAASGYNFSHFGLNWLRQAPGKGPWVGWINTYTGEPTYAPEFKRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPYYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:110  
EVQLVQSGGGLVQPGGSLRLSCAASGYDFTFHGLNWVRQAPGKGLEWVGWINTYTGETTYAHEFKRRVTFSLDTSKSTAYLQLNSLRAEDTAVYYCAKYPYYGRSH  
WYFDVWGQGTLVTVSS

Figure 1D-cont.

SEQ ID NO:283

EQQLVQSGPELKQPGETVRISCKASGYTFTNYGMNWVRQAPGKGLKWMGWINTYTGEPTYAADFKRRFTFSLETSASTAYLQISNLKNDDTATYFCAKYPHYGGSSH  
WYFDVWGAGTTVTVSS

SEQ ID NO:285

EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAHSRHHYGGSSP  
QYFDV WGGTTLVTVSS

SEQ ID NO:286

EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYGYYYGGSSH  
WYFDVWGQGTTLVTVSS

SEQ ID NO:287

EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPHYYGASH  
WYFDVWGQGTTLVTVSS

SEQ ID NO:288

EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPHYYGCH  
WYFDVWGQGTTLVTVSS

SEQ ID NO:289

EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPHYYGSH  
WYFDVWGQGTTLVTVSS

SEQ ID NO:290

EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPHYYGYN  
QYFDVWGQGTTLVTVSS

SEQ ID NO:291

EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPHYGRSH  
WYFDVWGQGTTLVTVSS

SEQ ID NO:293

EVQLVESGGGLVQPGGSLRLSCAASGYTFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFKRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPHYGRSQ  
WYLDVWGQGTTLVTVSS

Figure 1D-cont.

SEQ ID NO:294

EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPHYYSRTC  
QYFDVWGQGTLVTVSS

SEQ ID NO:295

EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPHYYSSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:296

EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPFYFGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:297

EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPYHGGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:298

EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPYNGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:299

EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPYNTSTSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:300

EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPYSGTSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:301

EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPYSGTSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:302

EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPYVYGRSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:303

EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVYYCAKYPYVYGGSSH  
WYFDVWGQGTLVTVSS

Figure 1D-cont.

SEQ ID NO:304  
EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVVYCAKYPYYGSSS  
WYFDVWGQGTLVTVSS

SEQ ID NO:305  
EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVVYCAKYPYYSTSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:306  
EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVVYCAKYRDFNGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:307  
EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVVYCAKYSYYGSSH  
WYFDVWGQGTLVTVSS

SEQ ID NO:308  
EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVVYCARARHYYGSSH  
CYFDLWGQGTLVTVSS

SEQ ID NO:309  
EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVVYCARDSHYYGSSH  
QYFDLWGQGTLVTVSS

SEQ ID NO:310  
EVQLVESGGGLVQPGGSLRLSCAASGYTFFTNYGMNWVRQAPGKGLEWVGWINTYTGEPTYAADFRRFTFSLDTSKSTAYLQMNSLRAEDTAVVYCAKYPHYYYGTSH  
WYFDVWGQGTLVTVSS

Figure 1D-cont.

**Amino Acid Sequences of V<sub>H</sub>/CDR1 of Selected Anti-VEGF Antibodies**

SEQ ID NO:111	GFDFFTNYGMN
SEQ ID NO:112	GYTFTNYGMN
SEQ ID NO:113	GYSLDHYGMN
SEQ ID NO:114	GYALDHFGLN
SEQ ID NO:115	GYDFYNYGIN
SEQ ID NO:116	GYTFTNYGMN
SEQ ID NO:117	GYSFDDHYGLN
SEQ ID NO:118	GYDFSNYGLN
SEQ ID NO:119	GYDFSHFGIN
SEQ ID NO:120	GYDFAHYGVN
SEQ ID NO:121	GYDFDHFGIN
SEQ ID NO:122	GYDFNNYGMN
SEQ ID NO:123	GYDFASFGIN
SEQ ID NO:124	GFNFTHYGIN
SEQ ID NO:125	GYDFAHYGLN
SEQ ID NO:126	GYNFYHYGVN
SEQ ID NO:127	GYDFTHYGLN
SEQ ID NO:128	GYNFYSYGLN
SEQ ID NO:129	GYDFSHFGIN
SEQ ID NO:130	GYTFTHYGLN
SEQ ID NO:131	GYDFTHFGLN
SEQ ID NO:132	GYDLSHYGLN
SEQ ID NO:133	GYNFSHFGLN
SEQ ID NO:134	GYNFSHFGLN
SEQ ID NO:135	GYDFTHFGLN



Figure 1D-cont.

**Amino Acid Sequences of V<sub>H</sub>/CDR2 of Selected Anti-VEGF Antibodies**

SEQ ID NO:136	WINTYTGEPTYAHEFTR
SEQ ID NO:137	WINTYTGEPTYAADFTR
SEQ ID NO:138	WINTYTGEPTYADEFTR
SEQ ID NO:139	WINTYTGEPTYAEEFTR
SEQ ID NO:140	WINTYTGETTYVPEFKR
SEQ ID NO:141	WINTYTGETTYAHDFKR
SEQ ID NO:142	WINTYTGEPTYVDFKR
SEQ ID NO:143	WINTYNGEPTYAPDFKR
SEQ ID NO:144	WINTYTGESTYAQDFKR
SEQ ID NO:145	WINTNNGEPTYAQDFKR
SEQ ID NO:146	WVNTYTGESTYVPEFKR
SEQ ID NO:147	WVNTYTGETTYAQEFKR
SEQ ID NO:148	WINTYTGETTYAHEFTR
SEQ ID NO:149	WINTYTGEPTYAQEFKR
SEQ ID NO:150	WINTYTGETTYAHDFKR
SEQ ID NO:151	WVNTYTGETTYADEFKR
SEQ ID NO:152	WINTYTGEPTYAQDFKR
SEQ ID NO:153	WINTYTGEPTYAPDFTR
SEQ ID NO:154	WINTYNGEPTYAPDFKR
SEQ ID NO:155	WINTYTGEPTYAPEFKR
SEQ ID NO:156	WVNTYTGETTYAHEFKR

Figure 1D-cont.

Amino Acid Sequences of V<sub>H</sub>/CDR3 of Selected Anti-VEGF Antibodies

SEQ ID NO: 311	CAHSRHHYYGSSPQYFDV
SEQ ID NO: 312	CAKYGYYYGSSHWYFDV
SEQ ID NO: 313	CAKYPHYYGASHWYFDV
SEQ ID NO: 314	CAKYPHYYGSGCHWYFDV
SEQ ID NO: 315	CAKYPHYYGSGSHWYFDV
SEQ ID NO: 316	CAKYPHYYGGINQYFDV
SEQ ID NO: 317	CAKYPHYYGGRSHWYFDV
SEQ ID NO: 318	CAKYPHYYGGRSQWYLDV
SEQ ID NO: 319	CAKYPHYYSRTCQYFDV
SEQ ID NO: 320	CAKYPHYYSSSHWWYFDV
SEQ ID NO: 321	CAKYPHYFYGSSHWYFDV
SEQ ID NO: 322	CAKYPYHGGSSHWYFDV
SEQ ID NO: 323	CAKYPYNGSSHWYFDV
SEQ ID NO: 324	CAKYPYNSTSHWYFDV
SEQ ID NO: 325	CAKYPYSGTSHWYFDV
SEQ ID NO: 326	CAKYPYSGTSHWYFDY
SEQ ID NO: 327	CAKYPYYGGRSHWYFDV
SEQ ID NO: 328	CAKYPYYGSSHWYFDV
SEQ ID NO: 329	CAKYPYYGSSSWYFDV
SEQ ID NO: 330	CAKYPYYSTSHWYFDV
SEQ ID NO: 331	CAKYRDFNGSSHWYFDV
SEQ ID NO: 332	CAKYSYYGSSHWYFDV
SEQ ID NO: 333	CARARHHYGGSHCYFDL
SEQ ID NO: 334	CARDSHYYGSSHQYFDL
SEQ ID NO: 335	CAKYPHYYGTSHWYFDV
SEQ ID NO: 336	CAKYPHYYGSSHWYFDV
SEQ ID NO: 337	CAKYPYYGTSHWYFDV

Figure 1D-cont.

**Amino Acid Sequences of V<sub>H</sub>/FRs of Selected Anti-VEGF Antibodies**

SEQ ID NO:157  
EVQLVQSGGGVVPGGSLRLSCAAS/CDR1/WVRQAPGKGLEWVG/CDR2/RFTFSLDTSKSTAYLQMNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:158  
EVQLVQSGGGVVPGGSLRLSCAAS/CDR1/WVRQAPGKGLEWVG/CDR2/RFTFSLDTSKNTAYLQLNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:159  
EVQLVQSGGGVVPGGSLRLSCAAS/CDR1/WIRQAPGKGLEWVG/CDR2/RFTISLDNSKSTVYLQMNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:160  
EVQLVQSGGGVVPGGSLRLTCAVS/CDR1/WIRQAPGKGLEWVG/CDR2/RFTISRDTSKNQAYLQMNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:161  
EVQLVQSGGGVVPGGSLRLSCAAS/CDR1/WIRQAPGKGLEWVG/CDR2/RVTFSLDTSKSTAYLQLNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:162  
QVQLVQSGGGVVPGGSLRLTCAAS/CDR1/WVRQAPGKGLEWVG/CDR2/RFTISLDTSKSQAYLQMNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:163  
EVQLVQSGGGVVPGGTLRLTCAAS/CDR1/WVRQAPGKGLEWVG/CDR2/RVTFSLDTSKSTAYLQMNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:270  
EVQLVESGGGVVPGGSLRLSCAAS/CDR1/WIRQAPGKGLEWVG/CDR2/RFTISLDNSKSQAYLQMNSLRAEDTAVYYCA/CDR3/WAQTLLVTVSS

SEQ ID NO:271  
EVQLVQSGGGLVPPGGTLRLSCAAS/CDR1/WIRQAPGKGLEWVG/CDR2/RFTFSLDTSKNTAYLQMNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:272  
EVQLVQSGGGVVPGGSLRLRCAAS/CDR1/WIRQAPGKGLEWVG/CDR2/RVTFSLDTSKSTAYLQLNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:273  
EVQLVQSGGGVVPGGSLRLSCAAS/CDR1/WIRQAPGKGLEWVG/CDR2/RFTFSLDTSKNTAYLQLNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:274  
EVQLVQSGGGVVPGGTLRLSCAAS/CDR1/WIRQAPGKGLEWVG/CDR2/RVTFSLDTSKSTAYLQLNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

Figure 1D-cont.

SEQ ID NO:275  
EVQLVQSGGTVQPGGTLRLTCAAS/CDR1/WIRQAPGKGLEWVG/CDR2/RVTFSLDTSKSTAYLQMNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:276  
EVQLVQSGGTVQPGGTLRLTCAAS/CDR1/WVRQAPGKGLEWVG/CDR2/RVTISLDTSKSTVYLQMNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:277  
QVQLVESGGGLVQPGGSLRLTCAAS/CDR1/WIRQAPGKGLEWVG/CDR2/RFTFSLDTSKSKAYLQLNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:278  
QVQLVQSGGTVQPGGSLRLSCAAS/CDR1/WIRQAPGKGLEWVG/CDR2/RVTFSLDNSKSTVYLQMNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:279  
QVQLVQSGGTVQPGGSLRLSCAAS/CDR1/WVRQAPGKGLEWVG/CDR2/RFTISLDTSKNTAYLQLNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:280  
QVQLVQSGGTVQPGGSLRLTCAAS/CDR1/WIRQAPGKGLEWVG/CDR2/RVTISLDTSKSQAYLQMNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:281  
QVQLVQSGGTVQPGGSLRLTCAAS/CDR1/WIRQAPGKGLEWVG/CDR2/RVTISLDTSKSTAYLQLNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

SEQ ID NO:282  
QVQLVQSGGTVQPGGTLRLTCAAS/CDR1/WIRQAPGKGLEWVG/CDR2/RFTFSLDTSKNTAYLQMNSLRAEDTAVYYCA/CDR3/WGQGTLLVTVSS

Figure 2A

Variants	$K_{\text{on}}$ ( $10^4 \text{ M}^{-1}\text{s}^{-1}$ )	$K_{\text{off}}$ ( $10^{-4} \text{ s}^{-1}$ )	$K_d$ (nM)	hAB1 $K_d$ /Variant $K_d$
hAB1	0.85	1.10	13.0	1
hAB2	1.79	0.69	3.9	3.4
hAB3	3.74	1.15	3.1	4.2
hAb4	0.40	1.04	26.0	0.5
hAb5	1.22	0.72	5.9	2.2
hAB9	0.29	0.14	4.9	2.7

Figure 2B

Variants	$K_{\text{on}}$ ( $10^4 \text{ M}^{-1}\text{s}^{-1}$ )	$K_{\text{off}}$ ( $10^{-4} \text{ s}^{-1}$ )	$K_d$ (nM)	hAB1 $K_d$ /Variant $K_d$
hAB1	0.61	0.85	13.8	1
hAB10	0.11	0.03	2.2	6.3
hAB11	1.59	0.87	5.4	2.6
hAB12	0.23	0.03	1.5	9.2

Figure 2C

Variants	$K_{on} (10^4 \text{ M}^{-1}\text{s}^{-1})$	$K_{off} (10^{-4} \text{ s}^{-1})$	$K_d \text{ (nM)}$	hAB1 $K_d$ /Variant $K_d$
hAB1	1.02	4.20	41.4	1
hAB7	0.85	0.09	1.1	37.6
hAB8	1.58	0.17	1.1	37.6
hAB13	1.52	0.56	3.7	11.2
hAB14	1.71	0.62	3.6	11.5
hAB15	2.34	0.86	3.7	11.2
hAB16	2.93	0.47	1.6	25.9
hAB17	1.86	2.13	11.5	3.7
hAB18	0.71	2.59	36.3	1.1
hAB19	1.27	9.82	77.1	0.5
hAB20	2.18	3.08	14.2	3.0
hAB35	8.28	0.62	0.7	59.1
hAB36	4.75	0.37	0.7	59.1
hAB37	5.73	0.44	0.8	51.8
hAB38	5.00	0.48	0.9	46.0
hAB39	2.84	0.48	1.8	23.0

Figure 3

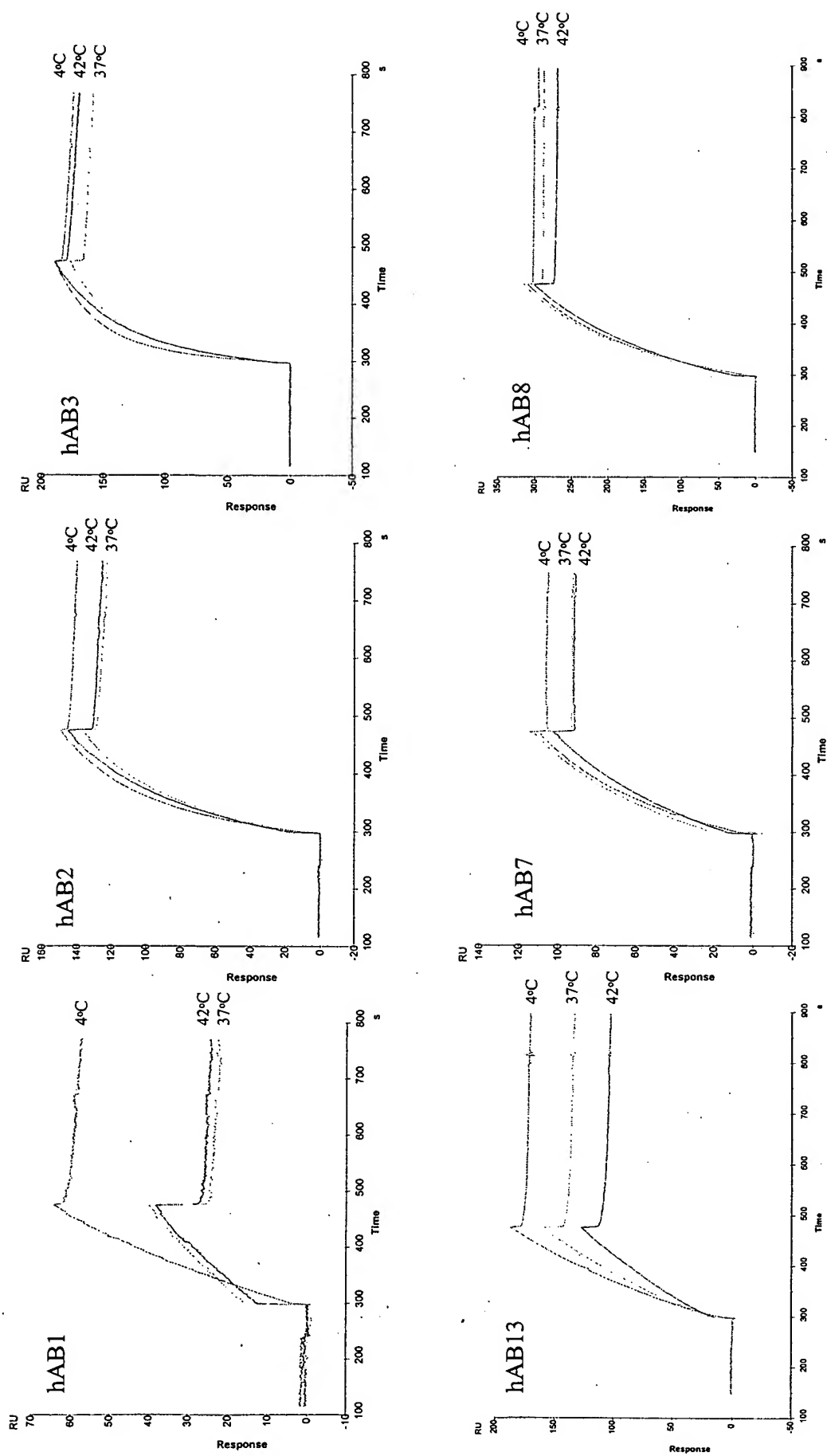


Figure 4

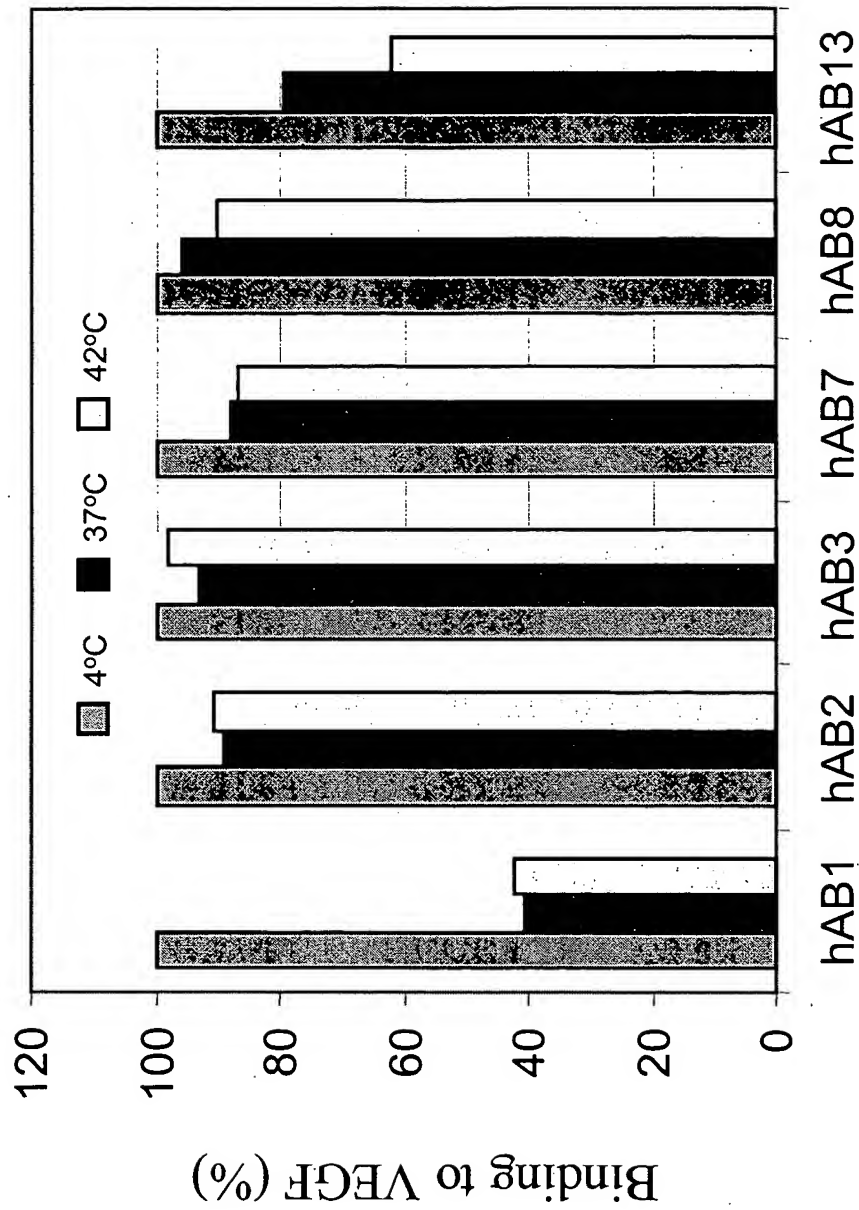
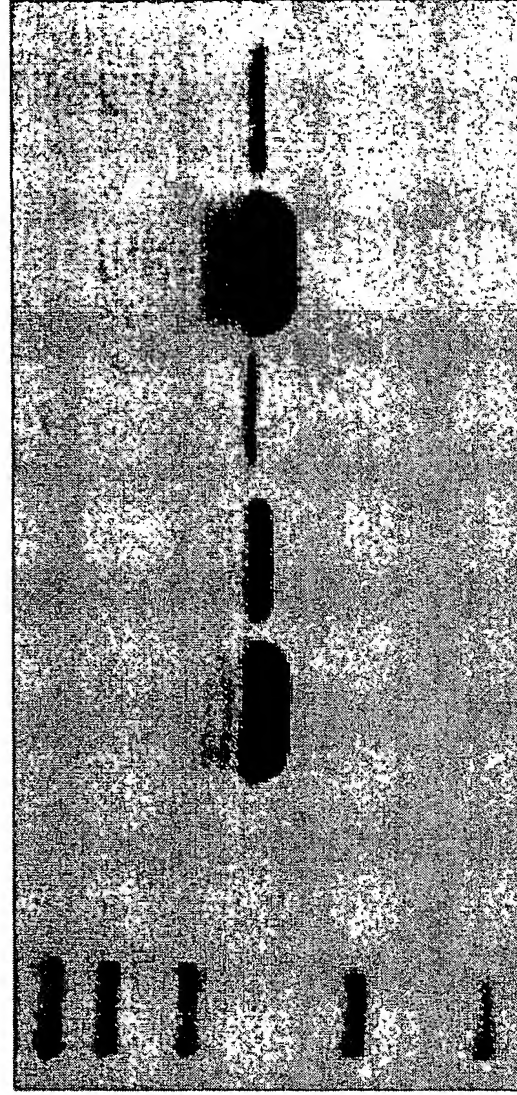




Figure 5



hAB1 hAB35 hAB36 hAB37 hAB38 hAB39

Figure 6

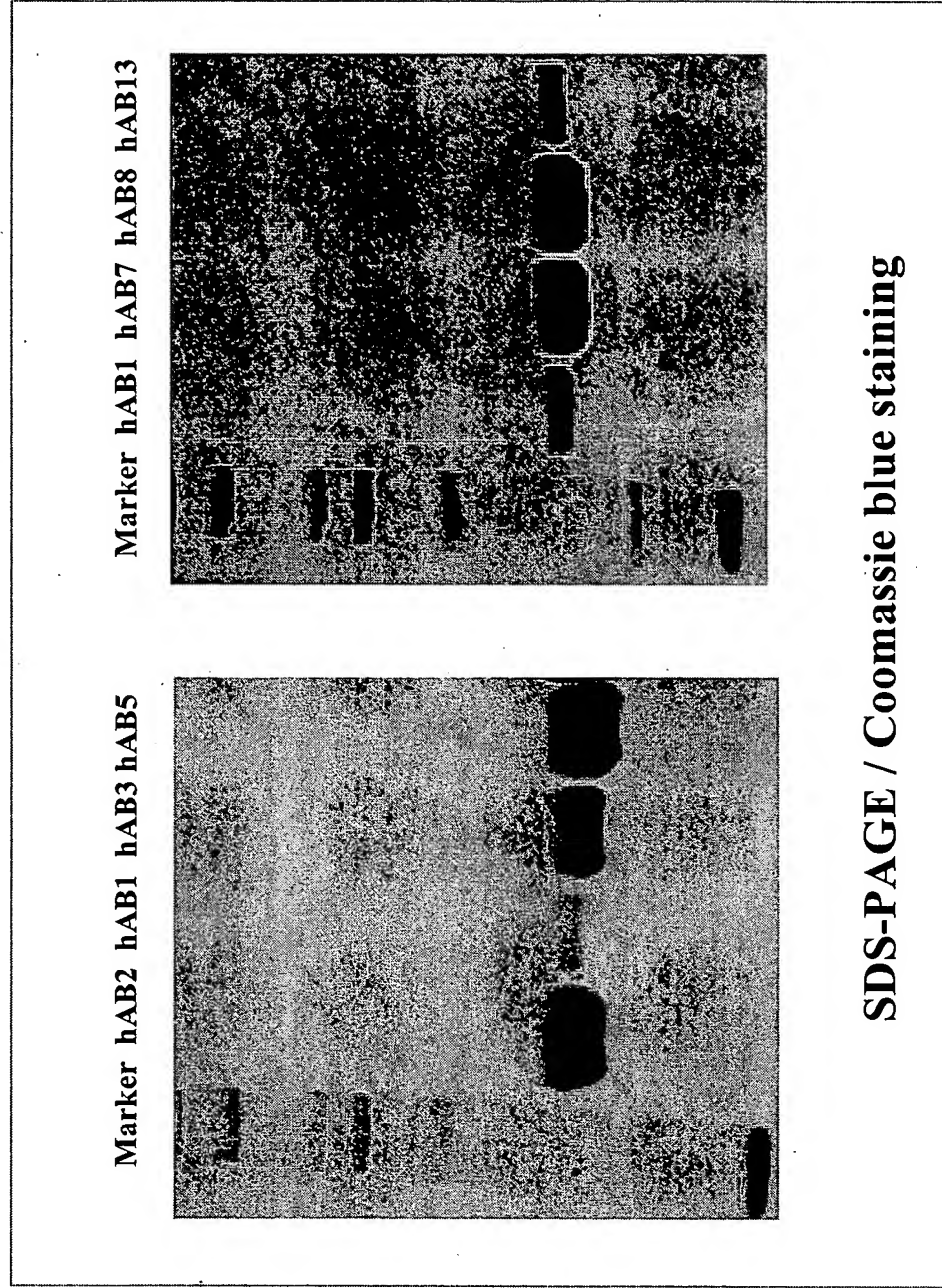


Figure 7

